

Dated: December 10, 2003

REMARKS

Entry of the above amendments is requested. If for any reason the Examiner feels that a telephone conference would expedite prosecution of the Application, the Examiner is encouraged to contact the undersigned at the telephone number provided below.

Dated: December 10, 2003

Respectfully submitted,

A handwritten signature in cursive script, reading "Shelby J. Walker", is written over a horizontal line.

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Enclosure:
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In the Claims:

Version Showing Changes Made:

1. (Cancelled) An isolated polynucleotide which encodes a mammalian Zsig9 polypeptide wherein said polynucleotide encodes a polypeptide selected from the group SEQ ID NOs: 2-6, 17, 20 19 and 21 or a polypeptide which is at least 90% identical to the polypeptides of said group.

2. (Cancelled) An isolated polynucleotide which encodes a peptide or polypeptide having at least 15 amino acid residues comprised of an epitope-bearing portion of a polypeptide of SEQ ID NOs: 2-6, 17, 20 19 and 21 or a polypeptide which is at least 90% identical to said polypeptides.

3. (Cancelled) The polynucleotide of claim ~~19~~ 16 wherein the polypeptide is fused to a carrier polypeptide or other carrier molecule.

4. (Cancelled) An expression vector comprising the following operably linked elements:

a transcription promoter;

a DNA segment which encodes a Zsig9 polypeptide or a peptide or polypeptide which contains an epitope-bearing region of a Zsig9 polypeptide; and
a transcription terminator.

5. (Cancelled) An expression vector comprising the following operably linked elements:

(a) a transcription promoter;

(b) a DNA segment encoding a chimeric polypeptide, wherein said chimeric polypeptide consists essentially of a first portion and a second portion joined by a peptide bond, said first portion being comprised of a mammalian polypeptide, said polypeptide being the amino acid sequences of SEQ ID NOs: 2-6, 17, 20 19 and 21 and said second portion being a second polypeptide or protein.

(c) a transcription terminator.

6. (Cancelled) An isolated Zsig9 polypeptide selected from the group of amino acid sequences consisting of SEQ ID NOs: 22-6, 17, 20 19 and 21 or a polypeptide which is at least 90% identical to said polypeptides.

7. (Cancelled) An isolated peptide or polypeptide having at least 15 amino acid residues comprised of an epitope-bearing portion of a polypeptide of SEQ ID NOs: 2-6, 17, 20 19 and 21.

8. (Cancelled) An antibody, antibody fragment or single-chain antibody that specifically binds to a mammalian polypeptide, said polypeptide being defined by the amino acid sequences of SEQ ID NOs: 2-6, 17, 20 19 and 21 or a polypeptide which is at least 90% identical to said amino acid sequences.

9. (Cancelled) An antibody of claim 8 wherein said antibody is either monoclonal or polyclonal.

10. (Cancelled) The antibody, antibody fragment or single-chain antibody of claim 9 wherein said antibody, antibody fragment or single-chain antibody is humanized.

11. (Cancelled) A method for producing an antibody which binds to a peptide or polypeptide defined by SEQ ID NOs: 2-6, 17, 20 19 and 21 or to a peptide or polypeptide which is at least 90% identical to said peptide or polypeptide comprising bringing into contact a peptide or polypeptide defined by SEQ ID NOs: 2-6, 17, 20 19 and 21 or to a peptide or polypeptide which is at least 90% identical to said peptide or polypeptide with a cell capable or producing antibodies or the cell is brought into contact with a nucleic acid which encodes said peptide or polypeptide, wherein said cell produces antibodies to said peptide or polypeptide; and isolating said antibody.

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12. (Cancelled) The antibody of claim 11 wherein said antibody is either a polyclonal or monoclonal antibody.

13. (Cancelled) The method of claim 11 wherein an animal is inoculated with the peptide or polypeptide or nucleic acid under conditions wherein the animal produces antibodies to said peptide; and isolating said antibodies.

14. (Cancelled) The method of claim 13 wherein the antibodies are polyclonal or monoclonal.

15. (Cancelled) An anti-idiotypic antibody, anti-idiotypic antibody fragment or anti-idiotypic single-chain antibody which binds to an antibody, an antibody fragment or single-chain antibody of peptide or polypeptide defined by SEQ ID NOs: 2-6, 17, 20 19 and 21 or to a peptide or polypeptide which is at least 90% identical to said peptide or polypeptide.

16. (Previously Added) An isolated polynucleotide which encodes a polypeptide selected from the group consisting of SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:20, and SEQ ID NO:21.

17. (Previously Added) The polynucleotide of claim 16 which is DNA.

18. (Previously Added) The polynucleotide of claim 16 wherein said polynucleotide is selected from the group consisting of SEQ ID NO:16 and SEQ ID NO:18.

19. (Cancelled) An isolated polynucleotide which encodes at least 15 contiguous amino acid residues of SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:20, or SEQ ID NO:21.

20. (Cancelled) The polynucleotide of claim 19 which is DNA.

21. (Currently Amended) An expression vector comprising the following operably linked elements:

a transcription promoter;

a DNA segment which encodes a polypeptide selected from the group consisting of: at least 15 contiguous amino acid residues of SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:20, or SEQ ID NO:21.; and

a transcription terminator.

22. (Previously Added) The expression vector of claim 21 wherein the DNA segment encodes a polypeptide selected from the group consisting of SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:20, and SEQ ID NO:21.

23. (Currently Amended) The expression vector of claim 21 wherein the DNA segment encodes a chimeric polypeptide comprising a ~~second mammalian~~ an affinity tag polypeptide joined by a peptide bond to a said polypeptide selected from the group consisting of SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:20, and SEQ ID NO:21.

24. (Previously Added) The expression vector of claim 21, further comprising a secretory signal sequence operably linked to the DNA segment.

25. (New) The expression vector of claim 23, wherein the affinity tag is selected from the group comprising: a poly-histidine tract, protein A, and glutathione S transferase.